AUTHOR INDEX

Volumes 88, 89, 90, and 91, 1992

ABBAS, T., COSTEN, P., and LOCKWOOD, F. C.
The Influence of Near Burner Region Aerodynamics on the Formation and Emission of Nitrogen Oxides in a Pulverized Coal-Fired Furnace, 91: 346

AGRAWAL, S., and WICHMAN, I. S.
Effect of Reaction Zone Temperature Profiles on the Pulsation Frequency of Flames Spreading Across a Ceiling in the Direction of the Prevailing Flow, 91: 83

AHRENS, J.: see Brown, R. C.

ALDREDGE, R. C.
The Propagation of Wrinkled Premixed Flames in Spatially Periodic Shear Flow, 90: 121

AMROGOWICZ, J.: see Kordylewski, W.

AU, S., HALEY, R., and SMY, P. R.
The Influence of Igniter-Induced Blast Wave Upon the Initial Volume and Expansion of the Flame Kernel, 88: 50

BAER, M. R.: see Kang, J.

BAILLOT, F., DUROX, D., and PRUD'HOMME, R.
Experimental and Theoretical Study of a Premixed Vibrating Flame, 88: 149

BALAKRISHNAN, G., TREVIÑO, C., and MAUSS, F.
The Asymptotic Structure of Hydrogen–Air Diffusion Flames, 91: 246

BARAT, R. B.: see Ho, W. P.

BARKLEY, R. M.: see McKinnon, J. T.

BARLOW, R. S.: see Masri, A. R.

BARTLE, K. D.: see Smedley, J. M.

BAXTER, L. L.
Char Fragmentation and Fly Ash Formation During Pulverized-Coal Combustion, 90: 174

BAXTER, L. L., and HABIB, Z. G.
The Effect of Surfactants on Disaggregation of Coal–Water Slurry Particles, 90: 199

BAXTER, L. L., and MITCHELL, R. E.
The Release of Iron During the Combustion of Illinois Number 6 Coal, 88: 1

BELL, W. L.: see McKinnon, J. T.

BEN-YA'ISH, J.: see Sher, E.

BENZ, F. J.: see Steinberg, T. A.

BERLAD, A. L.: see Seshadri, K.

BORGHI, R.: see Gonzalez, M.

BOURLIOUX, A., and MAJDA, A. J.
Theoretical and Numerical Structure for Unstable Two-Dimensional Detonations, 90: 211

BOWLES, E. M.: see Kumar, R. K.

BOZELLI, J. W.: see Ho, W. P.

BRANCH, M. C.: see Vandooren, J.

BRAY, K. N. C., CHAMPION, M., and LIBBY, P. A.
Premixed Flames in Stagnating Turbulence Part III—The κ–η Theory for Reactants Impinging on a Wall, 91: 165

BREWSTER, M. E.
Stationary Premixed Flames in a Dual-Source System, 91: 99

BRINDLEY, J.: see Tomlin, A. S.

BROWN, R. C., AHRENS, J., and CHRISTOFIDES, N.
The Contributions of Attrition and Fragmentation to Char Elutriation from Fluidized Beds, 89: 95

BUI-PHAM, M., SESHADRI, K., and WILLIAMS, F. A.
The Asymptotic Structure of Premixed Methane–Air Flames with Slow CO Oxidation, 89: 343

BUTLER, P. B.: see Kang, J.

CABOT, G.: see Stepowski, D.

CALABRESE, M.: see Griffin, T. A.

CARD, J. M., and WILLIAMS, F. A.
Asymptotic Analysis with Reduced Chemistry for the Burning of *n*-Heptane Droplets, 91: 187

CARRIER, G., FENDELL, F., and MITCHELL, J.
In Situ Burning via Towed Boom of Oil Spilled at Sea, 90: 295

CATLIN, C. A., and JOHNSON, D. M.
Experimental Scaling of the Flame Acceleration Phase of an Explosion by Changing Fuel Gas Reactivity, 88: 15

CETEGEN, B. M., and PINES, D. S.
Combustion of a Stretched Carbon Monoxide Ligament with Radiative Heat Losses, 91: 143

CHAMPION, M.: see Bray, K. N. C.

CHAN, S. H., and TAN, C. C.
Complex Equilibrium Calculations by Simplex

and Duality Theories with Applications to Liquid Metal Fuel Propulsion Systems, 88: 123

CHAUVEAU, C.: see Gökalp, I.

CHEN, J.-Y., and KOLLMANN, W.
PDF Modeling and Analysis of Thermal NO Formation in Turbulent Nonpremixed Hydrogen–Air Jet Flames, 88: 397

CHEN, K.: see Fendell, F.

CHEN, R.-H.: see Driscoll, J. F.

CHEN, X. D.
On the Mathematical Modeling of the Transient Process of Spontaneous Heating in a Moist Coal Stockpile, 90: 114

CHENG, T. S., WEHRMEYER, J. A., and PITZ, R. W.
Simultaneous Temperature and Multispecies Measurement in a Lifted Hydrogen Diffusion Flame, 91: 323

CHESNEAU, X.: see Gökalp, I.

CHIMOTE, R. S.: see Sharma, T. P.

CHRISTOFIDES, N.: see Brown, R. C.

COHEN, R. D.: see Ji, C.-C.

COPELAND, R.: see Griffin, T. A.

CORRE, C.: see Minetti, R.

CORREA, S. M., and GULATI, A.
Measurements and Modeling of a Bluff Body Stabilized Flame, 89: 195

COSTEN, P.: see Abbas, T.

COX, G.: see Smith, D. A.

CRIBB, P. H., DOVE, J. E., and YAMAZAKI, S.
A Kinetic Study of the Oxidation of Methanol Using Shock Tube and Computer Simulation Techniques, 88: 186

CRIBB, P. H., DOVE, J. E., and YAMAZAKI, S.
A Kinetic Study of the Pyrolysis of Methanol Using Shock Tube and Computer Simulation Techniques, 88: 169

CROSLEY, D.: see Griffin, T. A.

CROSLEY, D. R.: see Heard, D. E.

CURTIS, E. W., and FARRELL, P. V.
A Numerical Study of High-Pressure Droplet Vaporizations, 90: 85

DAGLEY, I. J., HO, S. Y., MONTELLI, L., and LOUEY, C. N.
High Strain Rate Impact Ignition of RDX with Ethylene–Vinyl Acetate (EVA) Copolymers, 89: 271

DAVIDSON, J. F.: see Hesketh, R. P.

DELICHATSIOS, M. A.: see Delichatsios, M. M.

DELICHATSIOS, M. M., and DELICHATSIOS, M. A.
Effects of Transient Pyrolysis on Wind-Assisted and Upward Flame Spread, 89: 5

DIBBLE, R. W.: see Masri, A. R.

DIMITRIENKO, I. D.: see Smirnov, N. N.

DOVE, J. E.: see Cribb, P. H.

DRISCOLL, J. F., CHEN, R.-H., and YOON, Y.
Nitric Oxide Levels of Turbulent Jet Diffusion Flames: Effects of Residence Time and Damkohler Number, 88: 37

DRISCOLL, J. F.: see Kwon, S.

DRISCOLL, J. F.: see Wu, M.-S.

DRYER, F. L.: see Hochgreb, S.

DUROX, D.: see Baillot, F.

EGORSHEV, V. Yu.: see Fogelzang, A. E.

EL-SAYED, S.: see Shouman, A. R.

EMBID, P. F., and MAJDA, A. J.
An Asymptotic Theory for Hot Spot Formation and Transition to Detonation for Reactive Granular Materials, 89: 17

FAETH, G. M.: see Köylü, Ü. Ö.

FAETH, G. M.: see Kwon, S.

FAIRWEATHER, M., JONES, W. P., and LINDSTEDT, R. P.
Predictions of Radiative Transfer from a Turbulent Reacting Jet in a Cross-Wind, 89: 45

FARRELL, P. V.: see Curtis, E. W.

FEDOTOV, S. P.
Statistical Model of the Thermal Ignition of a Distributed System, 91: 65

FELSKE, J. D., and KU, J. C.
A Technique for Determining the Spectral Refractive Indices, Size, and Number Density of Soot Particles from Light Scattering and Spectral Extinction Measurements in Flames, 91: 1

FENDELL, F.: see Carrier, G.

FENDELL, F., MITCHELL, J., and CHEN, K.
Estimating the Deceleration of Spherical Laminar Flames in Highly Fuel-Rich Mixtures by Soot Radiation, 90: 196

FENG, H.-T., HILDYARD, C. J., and SCOTT, S. K.
Thermal Runaway in a System with a Constant Power Source, 88: 433

FISHER, E. M., and KOSHLAND, C. P.
Thermal Destruction of CH_3Cl Under Lean Postflame Conditions, 90: 185

FOGELZANG, A. E., EGORSHEV, V. Yu., SINDITSKY, V. P., and KOLESOV, B. I.
Combustion of Ammonium and Hydrazine Azides, 90: 289

FU, W. B., and ZENG, T. F.
A General Method for Determining Chemical Kinetic Parameters During Ignition of Coal Char Particles, 88: 413

FU, W. B., ZHANG, B. L., and ZHENG, S. M.

Experimental Determination of the Equivalent Thermal Diffusivity for Porous Coal–Ash Particles, 91: 419

FU, W. B., and ZHANG, E. Z.
A Universal Correlation Between the Heterogeneous Ignition Temperatures of Coal Char Particles and Coals, 90: 103

GANGULY, B. N.: see Wolf, M. J.

GLASSMAN, I.: see Sidebotham, G. W.

GÖKALP, I., CHAUVEAU, C., SIMON, O., and CHESNEAU, X.
Mass Transfer from Liquid Fuel Droplets in Turbulent Flow, 89: 286

GOLDSHLEGER, U. I.: see Shafirovich, E. Ya.

GONZALEZ, M., BORGHI, R., and SAOUAB, A.
Interaction of a Flame Front with Its Self-Generated Flow in an Enclosure: The "Tulip Flame" Phenomenon, 88: 201

GORE, J. P.: see Klassen, M.

GOYAL, G., PAUL, P. J., and MUKUNDA, H. S.
Computational Studies on One-Dimensional Laminar, Premixed Hydrogen–Nitric Oxide Flames, 88: 28

GREENBERG, J. B.: see Zhang, Y.

GRIFFIN, T. A., CALABRESE, M., PFEFFERLE, L. D., SAPPEY, A., COPELAND, R., and CROSLEY, D.
The Influence of Catalytic Activity on the Ignition of Boundary Layer Flows. Part III: Hydroxyl Radical Measurements in Low-Pressure Boundary Layer Flows, 90: 11

GRIFFITHS, J. F., ROSE, D., SCHREIBER, M., MEYER, J., and KNOCHE, K. F.
Novel Features of End-Gas Autoignition Revealed by Computational Fluid Dynamics, 91: 209

GRIFFITHS, S. K., and NILSON, R. H.
Similarity Analysis of Fracture Growth and Flame Spread in Deformable Solid Propellants, 88: 369

GULARI, E.: see Jawad, B.

GULATI, A.: see Correa, S. M.

GÜLDER, Ö.
Soot Formation in Laminar Diffusion Flames at Elevated Temperatures, 88: 74

HABIB, Z. G.: see Baxter, L. L.

HALEY, R.: see Au, S.

HEARD, D. E., JEFFRIES, J. B., SMITH, G. P., and CROSLEY, D. R.
LIF Measurements in Methane/Air Flames of Radicals Important in Prompt-NO Formation, 88: 137

HENEIN, N. A.: see Jawad, B.

HESKETH, R. P., and DAVIDSON, J. F.
Response to Comment by J. F. Stubington on "Combustion of Methane and Propane in an Incipiently Fluidized Bed" by Hesketh and Davidson, 89: 236

HILDYARD, C. J.: see Feng, H.-T.

HILLS, P. C., SAMSON, P. J., ZHANG, D. K., and WALL, T. F.
Laser Ignition of Combustible Gases by Radiative Heating of Small Particles, 91: 399

HO, S. Y.
Impact Ignition Mechanisms of Rocket Propellants, 91: 131

HO, S. Y.: see Dagley, I. J.

HO, W. P., BARAT, R. B., and BOZELLI, J. W.
Thermal Reactions of CH_2Cl_2 in H_2/O_2 Mixtures: Implications for Chlorine Inhibition of CO Conversion to CO_2, 88: 265

HOCHGREB, S., and DRYER, F. L.
A Comprehensive Study on CH_2O Oxidation Kinetics, 91: 257

HOTTEL, H. C., HOWARD, J. B., and SHIPMAN, C. W.
Obituary: Glenn Carber Williams, 89: 1

HOWARD, J. B.: see Hottel, H. C.

HSIAO, C. C.: see Shuen, J. S.

ISHII, K., TSUKAMOTO, T., UJIIE, Y., and KONO, M.
Analysis of Ignition Mechanism of Combustible Mixtures by Composite Sparks, 91: 153

JAWAD, B., GULARI, E., and HENEIN, N. A.
Characteristics of Intermittent Fuel Sprays, 88: 384

JEFFRIES, J. B.: see Heard, D. E.

JI, C.-C., and COHEN, R. D.
An Investigation of the Combustion of Pulverized Coal–Air Mixture in Different Combustor Geometries, 90: 307

JOHNSON, D. M.: see Catlin, C. A.

JONES, W. P.: see Fairweather, M.

KANG, J., BUTLER, P. B., and BAER, M. R.
A Thermomechanical Analysis of Hot Spot Formation in Condensed-Phase, Energetic Materials, 89: 117

KASHIWAGI, T., and NAMBU, H.
Global Kinetic Constants for Thermal Oxidative Degradation of a Cellulosic Paper, 88: 345

KLASSEN, M., SIVATHANU, Y. R., and GORE, J. P.
Simultaneous Emission Absorption Measurements in Toluene-Fueled Pool Flames: Mean and RMS Properties, 90: 34

KNOCHE, K. F.: see Griffiths, J. F.

KOLESOV, B. I.: see Fogelzang, A. E.
KOLLMANN, W.: see Chen, J.-Y.
KONO, M.: see Ishii, K.
KORDYLEWSKI, W., and AMROGOWICZ, J.
Comparison of $NaHCO_3$ and $NH_4H_2PO_4$ Effectiveness as Dust Explosion Suppressants, 90: 344
KOSHLAND, C. P.: see Fisher, E. M.
KÖYLÜ, Ü. Ö., and FAETH, G. M.
Structure of Overfire Soot in Buoyant Turbulent Diffusion Flames at Long Residence Times, 89: 140
KRAVCHIK, T.: see Sher, E.
KU, J. C.: see Felske, J. D.
KUMAR, R. K., BOWLES, E. M., and MINTZ, K. J.
Large-Scale Dust Explosion Experiments to Determine the Effects of Scaling on Explosion Parameters, 89: 320
KWON, S., TSENG, L.-K., and FAETH, G. M.
Laminar Burning Velocities and Transition to Unstable Flames in $H_2/O_2/N_2$ and C_3H_8/O_2N_2 Mixtures, 90: 230
KWON, S., WU, M.-S., DRISCOLL, J. F., and FAETH, G. M.
Flame Surface Properties of Premixed Flames in Isotropic Turbulence: Measurements and Numerical Simulations, 88: 221

LAFLEUR, A. L.: see Mulholland, J. A.
LAL, B. B.: see Sharma, T. P.
LAU, C. W., and NIKSA, S.
The Combustion of Individual Particles of Various Coal Types, 90: 45
LAWES, M.: see Williams, A.
LIBBY, P. A.: see Bray, K. N. C.
LIN, A.-C.: see Wong, S.-C.
LINDSTEDT, R. P.: see Fairweather, M.
LOCKWOOD, F. C.: see Abbas, T.
LOUEY, C. N.: see Dagley, I. J.

MAAS, U., and POPE, S. B.
Simplifying Chemical Kinetics: Intrinsic Low-Dimensional Manifolds in Composition Space, 88: 239
MAJDA, A. J.: see Bourlioux, A.
MAJDA, A. J.: see Embid, P. F.
MAKINO, A.
An Approximate Explicit Expression for the Combustion Rate of a Small Carbon Particle, 90: 143
MASRI, A. R., DIBBLE, R. W., and BARLOW, R. S.
Chemical Kinetic Effects in Nonpremixed Flames of H_2/CO_2 Fuel, 91: 285
MASRI, A. R., DIBBLE, R. W., and BARLOW, R. A.
The Structure of Turbulent Nonpremixed Flames of Methanol Over a Range of Mixing Rates, 89: 167
MASTORAKOS, E., TAYLOR, M. K. P., and WHITELAW, J. H.
Extinction and Temperature Characteristics of Turbulent Counterflow Diffusion Flames with Partial Premixing, 91: 40
MASTORAKOS, E., TAYLOR, M. K. P., and WHITELAW, J. H.
Scalar Dissipation Rate at the Extinction of Turbulent Counterflow Nonpremixed Flames, 91: 55
MATALON, M.: see McGreevy, J. L.
MAUSS, F.: see Balakrishnan, G.
MCGREEVY, J. L., and MATALON, M.
Lewis Number Effect on the Propagation of Premixed Flames in Closed Tubes, 91: 213
MCKINNON, J. T., BELL, W. L., and BARKLEY, R. M.
Combustion Synthesis of Fullerenes, 88: 102
McMILLION, L. G.: see Miller, E.
MELIUS, C. F.: see Miller, J. A.
MERKIN, J. H.: see Tomlin, A. S.
MEYER, J.: see Griffiths, J. F.
MICHELS, H. J.: see Rashidi, F.
MICHELS, H. J., and RASHIDI, F.
Shock Temperature as a Criterion for the Detonability of LNF/LPG Constituents, 91: 364
MILLER, E., and McMILLION, L. G.
The Suppression of Opposed-Jet Methane–Air Flames by Methyl Bromide, 89: 37
MILLER, J. A., and MELIUS, C. F.
Kinetic and Thermodynamic Issues in the Formation of Aromatic Compounds in Flames of Aliphatic Fuels, 91: 21
MINETTI, R., CORRE, C., RIBAUCOUR, M., and SOCHET, L. R.
Influence of N-Methylaniline on a Two-Stage Butane–Air Flame, 91: 413
MINTZ, K. J.: see Kumar, R. K.
MITCHELL, J.: see Carrier, G.
MITCHELL, J.: see Fendell, F.
MITCHELL, R. E.: see Baxter, L. L.
MITTAL, R.: see Shyy, W.
MONCHAMP, P. A.: see Mulholland, J. A.
MONTELLI, L.: see Dagley, I. J.
MUKUNDA, H. S.: see Goyal, G.
MULHOLLAND, G. P.: see Steinberg, T. A.
MULHOLLAND, J. A., SAROFIM, A. F., SOSTHIKUL, P., MONCHAMP, P. A., PLUMMER, E. F., and LAFLEUR, A. L.
Formation of Perchloroaromatics during Trichloroethylene Pyrolysis, 89: 103
MURAYAMA, M., and UCHIDA, K.
Synthesis of Uniform Diamond Films by Flat Flame Combustion of Acetylene/Hydrogen/

Oxygen Mixtures, 91: 239

NAMBU, H.: see Kashiwagi, T.
NIKSA, S.: see Lau, C. W.
NILSON, R. H.: see Griffiths, S. K.

OGDEN, S. D.: see Tewarson, A.
OZDOR, N.: see Sher, E.

PASTERNACK, L.
Gas-Phase Modeling of Homogeneous Boron/Oxygen/Hydrogen/Carbon Combustion, 90: 259
PAUL, P. J.: see Goyal, G.
PENDARVIS, R. W.: see Smith, F. G., III
PETERS, N.: see Yang, B.
PFEFFERLE, L. D.: see Griffin, T. A.
PILLING, M. J.: see Tomlin, A. S.
PINES, D. S.: see Cetegen, B. M.
PITZ, R.: see Cheng, T. S.
PLUMMER, E. F.: see Mulholland, J. A.
POPE, S. B.: see Maas, U.
PRASAD, K., and PRICE, E. W.
A Numerical Study of the Leading Edge of Laminar Diffusion Flames, 90: 155
PRICE, E. W.: see Prasad, K.
PRUD'HOMME, R.: see Baillot, F.

RASHIDI, F.: see Michels, H. J.
RASHIDI, F., and MICHELS, H. J.
Marginal Detonation of Aliphatic Natural Gas Constituents with O_2/N_2, 91: 373
RAUENZAHN, R.
Comment on "Pressure-containing Correlations in Variable Density and Turbulent Reacting Flows" by P. H. Gaskell and A. K. C. Lau 88: 119
RIBAUCOUR, M.: see Minetti, R.
RICE, R. W.: see Smith, F. G., III
ROEGNER, E. V.: see Zhang, Y.
ROONEY, P. D.: see Zhang, Y.
ROSE, D.: see Griffiths, J. F.
ROZENBAND, V. I., and VAGANOVA, N. I.
A Strength Model of Heterogeneous Ignition of Metal Particles, 88: 113

SAMSON, P. J., : see Hills, P. C.
SAOUAB, A.: see Gonzalez, M.
SAPPEY, A.: see Griffin, T. A.
SAROFIM, A. F.: see Mulholland, J. A.
SCHREIBER, M.: see Griffiths, J. F.
SCOTT, S. K.: see Feng, H.-T.
SESHADRI, K.: see Bui-Pham, M.
SESHADRI K.: see Yang, B.
SESHADRI, K., BERLAD, A. L., and TANGIRALA, V.
The Structure of Premixed Particle–Cloud Flames, 89: 333
SHAFIROVICH, E. Ya., and GOLDSHLEGER, U. I.
The Superheat Phenomenon in the Combustion of Magnesium Particles, 88: 425
SHARMA, T. P., CHIMOTE, R. S., LAL, B. B., and SINGH, J.
Experiments on Extinction of Liquid Hydrocarbon Fires by a Particulate Mineral, 89: 229
SHER, E., and OZDOR, N.
Laminar Burning Velocities of *n*-Butane/Air Mixtures Enriched with Hydrogen, 89: 214
SHER, E., BEN-YA'ISH, J., KRAVCHIK, T.
On the Birth of Spark Channels, 89: 186
SHIPMAN, C. W.: see Hottel, H. C.
SHOUMAN, A. R., and EL-SAYED, S.
Accounting for Reactant Consumption in the Thermal Explosion Problem. Part I: Mathematical Foundation, 88: 321
SHUEN, J. S., YANG, V., and HSIAO, C. C.
Combustion of Liquid-Fuel Droplets in Supercritical Conditions, 89: 299
SHYY, W., MITTAL, R., and UDAYKUMAR, H. S.
Control of Longitudinal Oscillations in a Constant Area Combustor: Numerical Simulation, 89: 363
SIDEBOTHAM, G. W., and GLASSMAN, I.
Flame Temperature, Fuel Structure, and Fuel Concentration Effects on Soot Formation in Inverse Diffusion Flames, 90: 269
SIMON, O.: see Gökalp, I.
SINDITSKY, V. P.: see Fogelzang, A. E.
SINGH, J.: see Sharma, T. P.
SINGH, J. P., and YUEH, F. Y.
Comparative Study of Temperature Measurement with Folded BOXCARS and Collinear CARS, 89: 77
SIVATHANU, Y. R.: see Klassen, M.
SMEDLEY, J. M., WILLIAMS, A., and BARTLE, K. D.
A Mechanism for the Formation of Soot Particles and Soot Deposits, 91: 71
SMIRNOV, N. N., and DIMITRIENKO, I. D.
Convective Combustion of Porous Compressible Propellants, 89: 260
SMITH, D. A., and COX, G.
Major Chemical Species in Buoyant Turbulent Diffusion Flames, 91: 226
SMITH, F. G., III, PENDARVIS, R. W., and RICE, R. W.
Combustion of Cellulosic Char Under Laminar Flow Conditions, 88: 61
SMITH, G. P.: see Heard, D. E.

SMY, P. R.: see Au, S.
SOCHET, L. R.: see Minetti, R.
SOSTHIKUL, P.: see Mulholland, J. A.
STEINBERG, T. A., and WILSON, D. B.
The Combustion Phase of Burning Metals, 91: 200
STEINBERG, T. A., MULHOLLAND, G. P., WILSON, D. B., and BENZ, F. J.
The Combustion of Iron in High-Pressure Oxygen, 89: 221
STEINBERG, T. A., WILSON, D. B., and BENZ, F.
The Burning of Metals and Alloys in Microgravity, 88: 309
STEPOWSKI, D., and CABOT, G.
Single-Shot Temperature and Mixture Fraction Profiles by Rayleigh Scattering in the Development Zone of a Turbulent Diffusion Flame, 88: 296
STUBINGTON, J. F.
Comment on "Combustion of Methane and Propane in an Incipiently Fluidized Bed" by Hesketh and Davidson, 89: 235

TALLEY, D. G.
Universal Definitions of Mixture Fractions and Progress Variables for Arbitrary States of Premixing, 88: 83
TAN, C. C.: see Chan, S. H.
TANGIRALA, V.: see Seshadri, K.
TAYLOR, M. K. P.: see Mastorakos, E.
TEWARSON, A., and OGDEN, S. D.
Fire Behavior of Polymethylmethacrylate, 89: 237
TOMLIN, A. S., PILLING, M. J., TURANYI, T. Á.,MERKIN, J. H., and BRINDLEY, J.
Mechanism Reduction for the Oscillatory Oxidation of Hydrogen: Sensitivity and Quasi-Steady-State Analyses, 91: 107
TOOSSI, R.
Surface Analysis of Combustion-Generated Soot Particles by X-Ray Photoelectron Spectroscopy, 90: 1
TREVIÑO,C.: see Balakrishnan, G.
TSENG, L.-K.: see Kwon, S.
TSUKAMOTO, T.: see Ishii, K.
TURANYI, T. A.: see Tomlin, A. S.

UCHIDA, K.: see Murayama, M.
UDAYKUMAR, H. S.: see Shyy, W.
UJIIE, Y.: see Ishii, K.

VAGANOVA, N. I.: see Rozenband, V. I.
VANDOOREN, J., BRANCH, M. C., and VAN TIGGELEN, P. J.
Comparisons of the Structure of Stoichiometric CH_4—N_2O–Ar and CH_4–O_2–Ar Flames by Molecular Beam Sampling and Mass Spectrometric Analysis, 90: 247
VAN TIGGELEN, P. J.: see Vandooren, J.

WALL, T. F.: see Hills, P. C.
WEHRMEYER, J. A.: see Cheng, T. S.
WHITELAW, J. H.: see Mastorakos, E.
WICHMAN, I. S.: see Agrawal, S.
WILLIAMS, A.: see Smedley, J. M.
WILLIAMS, A., WOOLLEY, R., and LAWES, M.
The Formation of NO_x in Surface Burners, 89: 157
WILLIAMS, F. A.: see Bui-Pham, M.
WILLIAMS, F. A.: see Card, J. M.
WILSON, D. B.: see Steinberg, T. A.
WOLF, M. J., and GANGULY, B. N.
Rydberg State Start Spectroscopic Measurement of Electric Field Profile in a Propane–Air Flame, 90: 284
WONG, S.-C., and LIN, A.-C.
Microexplosion Mechanisms of Aluminum/Carbon Slurry Droplets, 89: 64
WOOLLEY, R.: see Williams, A.
WU, M.-S.: see Kwon, S.
WU, M.-S., and DRISCOLL, J. F.
A Numerical Simulation of a Vortex Convected Through a Laminar Premixed Flame, 91: 310

YAMAZAKI, S.: see Cribb, P. H.
YANG, B., SESHADRI, K., and PETERS, N.
The Asymptotic Structure of Premixed Methanol–Air Flames, 91: 382
YANG, V.: see Shuen, J. S.
YOON, Y.: see Driscoll, J. F.
YUEH, F. Y.: see Singh, J. P.

ZENG, T. F.: see Fu, W. B.
ZHANG, B. L.: see Fu, W. B.
ZHANG, D.-K.: see Hills, P. C.
ZHANG, D.-K.
Laser-Induced Ignition of Pulverized Fuel Particles, 90: 134
ZHANG, E. Z.: see Fu, W. B.
ZHANG, Y., RONNEY, P. D., ROEGNER, E. V., and GREENBERG, J. B.
Lewis Number Effects of Flame Spreading Over Thin Solid Fuels, 90: 71
ZHENG, S. M.: see Fu, W. B.

SUBJECT INDEX

Volumes 88, 89, 90, and 91, 1992

1. ASYMPTOTIC ANALYSES
- Accounting for Reactant Consumption in the Thermal Explosion Problem. Part I: Mathematical Foundation, 88: 321
- Asymptotic Analysis with Reduced Chemistry for the Burning of *n*-Heptane Droplets, 91: 187
- The Asymptotic Structure of Hydrogen–Air Diffusion Flames, 91: 246
- The Asymptotic Structure of Premixed Methane–Air Flames with Slow CO Oxidation, 89: 343
- An Asymptotic Theory for Hot Spot Formation and Transition to Detonation for Reactive Granular Materials, 89: 17
- Lewis Number Effect on the Propagation of Premixed Flames in Closed Tubes, 91: 213

2. COMBUSTION IN PRACTICAL SYSTEMS
- The Asymptotic Structure of Premixed Methanol–Air Flames, 91: 382
- Control of Longitudinal Oscillations in a Constant Area Combuster: Numerical Simulation, 89: 363
- The Formation of NO_x in Surface Burners, 89: 157
- In Situ Burning via Towed Boom of Oil Spilled at Sea, 90: 295
- Synthesis of Uniform Diamond Films by Flat Flame Combustion of Acetylene/Hydrogen/Oxygen Mixtures, 91: 239
- A Universal Correlation Between the Heterogeneous Ignition Temperatures of Coal Char Particles and Coals, 90: 103

3.COMBUSTION STABILITY/INSTABILITY—NONE

4. COMBUSTION SYSTEMS: ANALYTIC AND NUMERICAL DESCRIPTIONS
- Asymptotic Analysis with Reduced Chemistry for the Burning of *n*-Heptane Droplets, 91: 187
- An Asymptotic Theory for Hot Spot Formation and Transition to Detonation for Reactive Granular Materials, 89: 17
- Computational Studies on One-Dimensional Laminar, Premixed Hydrogen–Nitric Oxide Flames, 88: 28
- Control of Longitudinal Oscillations in a Constant Area Combuster: Numerical Simulation, 89: 363
- Convective Combustion of Porous Compressible Propellants, 89: 260
- Effects of Transient Pyrolysis on Wind-Assisted and Upward Flame Spread, 89: 5
- An Investigation of the Combustion of Pulverized Coal–Air Mixture in Different Combustor Geometries, 90: 307
- Kinetic and Thermodynamic Issues in the Formation of Aromatic Compounds in Flames of Aliphatic Fuels, 91: 21
- Mechanism Reduction for the Oscillatory Oxidation of Hydrogen: Sensitivity and Quasi-Steady-State Analyses, 91: 107
- Novel Features of End-Gas Autoignition Revealed by Computational Fluid Dynamics, 91: 209
- A Numerical Simulation of a Vortex Convected Through a Laminar Premixed Flame, 91: 310
- A Numerical Study of the Leading Edge of Laminar Diffusion Flames, 90: 155
- The Propagation of Wrinkled Premixed Flames in Spatially Periodic Shear Flow, 90: 121
- Stationary Premixed Flames in a Dual-Source System, 91: 99
- Theoretical and Numerical Structure for Unstable Two-Dimensional Detonations, 90: 211

5. COMBUSTION SYSTEMS: MODELING AND SCALING
- Analysis of Ignition Mechanism of Combustible Mixtures by Composite Sparks, 91: 153
- Combustion of a Stretched Carbon Monoxide Ligament with Radiative Heat Losses, 91: 143
- Combustion of Cellulosic Char Under Laminar Flow Conditions, 88: 61
- The Combustion of Individual Particles of Various Coal Types, 90: 45
- A Comprehensive Study on CH_2O Oxidation Kinetics, 91: 257
- Experimental Scaling of the Flame Acceleration Phase of an Explosion by Changing Fuel Gas Reactivity, 88: 15

Experiments on Extinction of Liquid Hydrocarbon Fires by a Particulate Material, 89: 229
Gas-Phase Modeling of Homogeneous Boron/Oxygen/Hydrogen/Carbon Combustion, 90: 259
In Situ Burning via Towed Boom of Oil Spilled at Sea, 90: 295
Lewis Number Effects on Flame Spreading Over Thin Solid Fuels, 90: 71
Measurements and Modeling of a Bluff Body Stabilized Flame, 89: 195
Novel Features of End-Gas Autoignition Revealed by Computational Fluid Dynamics, 91: 209
PDF Modeling and Analysis of Thermal NO Formation in Turbulent Nonpremixed Hydrogen–Air Jet Flames, 88: 397
Predictions of Radiative Transfer from a Turbulent Reacting Jet in a Cross-Wind, 89: 45
Premixed Flames in Stagnating Turbulence Part III—The κ–π Theory for Reactants Impinging on a Wall, 91: 165
Similarity Analysis of Fracture Growth and Flame Spread in Deformable Solid Propellants, 88: 369

6. COMBUSTION SYSTEMS: NEW
The Structure of Premixed Particle–Cloud Flames, 89: 333

7. DETONATIONS: CONDENSED PHASE AND HETEROGENEOUS
An Asymptotic Theory for Hot Spot Formation and Transition to Detonation for Reactive Granular Materials, 89: 17
Marginal Detonation of Aliphatic Natural Gas Constituents with O_2/N_2, 91: 373
Shock Temperature as a Criterion for the Detonability of LNG/LPG Constituents, 91: 364

8. DETONATIONS: GAS PHASE
Theoretical and Numerical Structure for Unstable Two-Dimensional Detonations, 90: 211

9. DIAGNOSTICS: LASER
Characteristics of Intermittent Fuel Sprays, 88: 384
Chemical Kinetic Effects in Nonpremixed Flames of H_2/CO_2 Fuel, 91: 285
Comparative Study of Temperature Measurement with Folded BOXCARS and Collinear CARS, 89: 77
Laser Ignition of Combustible Gases by Radiative Heating of Small Particles, 91: 399
Laser-Induced Ignition of Pulverized Fuel Particles, 90: 134
LIF Measurements in Methane/Air Flames of Radicals Important in Prompt-NO Formation, 88: 137
Single-Shot Temperature and Mixture Fraction Profiles by Rayleigh Scattering in the Development Zone of a Turbulent Diffusion Flame, 88: 296
The Structure of Turbulent Nonpremixed Flames of Methanol Over a Range of Mixing Rates, 89: 167
A Technique for Determining the Spectral Refractive Indices, Size, and Number Density of Soot Particles from Light Scattering and Spectral Extinction Measurements in Flames, 91: 1

10. DIAGNOSTICS: OPTICAL AND PHOTOGRAPHIC
Experimental and Theoretical Study of a Premixed Vibrating Flame, 88: 149

11. DIAGNOSTICS: OTHER
Surface Analysis of Combustion-Generated Soot Particles by X-Ray Photoelectron Spectroscopy, 90: 1

12. EXPERIMENTAL TECHNIQUES OR RESULTS: BURNERS
Comparisons of the Structure of Stoichiometric CH_4–N_2–Ar and CH_4–O_2–Ar Flames by Molecular Beam Sampling and Mass Spectrometric Analysis, 90: 247
Extinction and Temperature Characteristics of Turbulent Counterflow Diffusion Flames with Partial Premixing, 91: 40
Flame Temperature, Fuel Structure, and Fuel Concentration Effects on Soot Formation in Inverse Diffusion Flames, 90: 269
The Formation of NO_x in Surface Burners, 89: 157
The Influence of Near Burner Region Aerodynamics on the Formation and Emission of Nitrogen Oxides in a Pulverized Coal-Fired Furnace, 91: 346
Laminar Burning Velocities of *n*-Butane/Air Mixtures Enriched with Hydrogen, 89: 214
Major Chemical Species in Buoyant Turbulent Diffusion Flames, 91: 226

A Mechanism for the Formation of Soot Particles and Soot Deposits, 91: 71
Rydberg State Stark Spectroscopic Measurement of Electric Field Profile in a Propane-Air Flame, 90: 284
Simultaneous Temperature and Multispecies Measurement in a Lifted Hydrogen Diffusion Flame, 91: 323
Soot Formation in Laminar Diffusion Flames at Elevated Temperatures, 88: 74
The Structure of Turbulent Nonpremixed Flames of Methanol Over a Range of Mixing Rates, 89: 167
The Suppression of Opposed-Jet Methane–Air Flames by Methyl Bromide, 89: 37

13. EXPERIMENTAL TECHNIQUES OR RESULTS: PLUG FLOW REACTORS
The Contributions of Attrition and Fragmentation to Char Elutriation from Fluidized Beds, 89: 95

14. EXPERIMENTAL TECHNIQUES OR RESULTS: QUASI-STATIC VESSELS
Flame Surface Properties of Premixed Flames in Isotropic Turbulence: Measurements and Numerical Simulations, 88: 221

15. EXPERIMENTAL TECHNIQUES OR RESULTS: SHOCK TUBES
A Kinetic Study of the Oxidation of Methanol Using Shock Tube and Computer Simulation Techniques, 88: 186
A Kinetic Study of the Pyrolysis of Methanol Using Shock Tube and Computer Simulation Techniques, 88: 169

16. EXPERIMENTAL TECHIQUES OR RESULTS: WELL STIRRED REACTORS
Large-Scale Dust Explosion Experiments to Determine the Effects of Scaling on Explosion Parameters, 89: 320

17. FIRE OR EXPLOSION PHENOMENA, COMBUSTION SAFETY
Accounting for Reactant Consumption in the Thermal Explosion Problem. Part I: Mathematical Foundation, 88: 321
The Combustion of Iron in High-Pressure Oxygen, 89: 221
Comparison of $NaHCO_3$ and $NH_4H_2PO_4$ Effectiveness as Dust Explosion Suppressants, 90: 344
Effects of Transient Pyrolysis on Wind-Assisted and Upward Flame Spread, 89: 5
Experimental Scaling of the Flame Acceleration Phase of an Explosion by Changing Fuel Gas Reactivity, 88: 15
Experiments on Extinction of Liquid Hydrocarbon Fires by a Particulate Material, 89: 229
Fire Behavior of Polymethylmethacrylate, 89: 237
High Strain Rate Impact Ignition of RDX with Ethylene–Vinyl Acetate (EVA) Copolymers, 89: 271
Impact Ignition Mechanisms of Rocket Propellants, 91: 131
The Influence of the Igniter-Induced Blast Wave Upon the Initial Volume and Expansion of the Flame Kernel, 88: 50
Large-Scale Dust Explosion Experiments to Determine the Effects of Scaling on Explosion Parameters, 89: 320
Laser Ignition of Combustible Gases by Radiative Heating of Small Particles, 91: 399
Lewis Number Effects on Flame Spreading Over Thin Solid Fuels, 90: 71
Major Chemical Species in Buoyant Turbulent Diffusion Flames, 91: 226
Predictions of Radiative Transfer from a Turbulent Reacting Jet in a Cross-Wind, 89: 45
Simultaneous Emission Absorption Measurements in Toluene-Fueled Pool Flames: Mean and RMS Properties, 90: 34

18. FLAME IGNITION OR STABILIZATION
Accounting for Reactant Consumption in the Thermal Explosion Problem. Part I: Mathematical Foundation, 88: 321
Analysis of Ignition Mechanism of Combustible Mixtures by Composite Sparks, 91: 153
Erratum on "Ignition of Hydrogen–Oxygen–Diluent Mixtures Adjacent to a Hot Nonreactive Surface, 89: 116
A General Method for Determining Chemical Kinetic Parameters During Ignition of Coal Char Particles, 88: 413
Impact Ignition Mechanisms of Rocket Propellants, 91: 131
The Influence of Catalytic Activity on the Ignition of Boundary Layer Flows. Part III: Hydroxyl Radical Measurements in Low-Pressure Boundary Layer Flows, 90: 11

The Influence of the Igniter-Induced Blast Wave Upon the Initial Volume and Expansion of the Flame Kernel, 88: 50
Laser-Induced Ignition of Pulverized Fuel Particles, 90: 134
A Numerical Study of the Leading Edge of Laminar Diffusion Flames, 90: 155
On the Birth of Spark Channels, 89: 186
Statistical Model of the Thermal Ignition of a Distributed System, 91: 65
Thermal Runaway in a System with a Constant Power Source, 88: 433
A Thermomechanical Analysis of Hot Spot Formation in Condensed-Phase, Energetic Materials, 89: 117
A Universal Correlation Between the Heterogeneous Ignition Temperatures of Coal Char Particles and Coals, 90: 103

19. FLAME QUENCHING OR EXTINCTION
Combustion of a Stretched Carbon Monoxide Ligament with Radiative Heat Losses, 91: 143
Comparison of $NaHCO_3$ and $NH_4H_2PO_4$ Effectiveness as Dust Explosion Suppressants, 90: 344
Estimating the Deceleration of Spherical Laminar Flames in Highly Fuel-Rich Mixtures by Soot Radiation, 90: 196
Experiments on Extinction of Liquid Hydrocarbon Fires by a Particulate Material, 89: 229
Extinction and Temperature Characteristics of Turbulent Counterflow Diffusion Flames with Partial Premixing, 91: 40
Scalar Dissipation Rate at the Extinction of Turbulent Counterflow Nonpremixed Flames, 91: 55
The Suppression of Opposed-Jet Methane–Air Flames by Methyl Bromide, 89: 37

20. FLAMES: DIFFUSION
The Asymptotic Structure of Hydrogen–Air Diffusion Flames, 91: 246
The Burning of Metals and Alloys in Microgravity, 88: 309
Chemical Kinetic Effects in Nonpremixed Flames of H_2/CO_2 Fuel, 91: 285
Combustion of a Stretched Carbon Monoxide Ligament with Radiative Heat Losses, 91: 143
Combustion of Liquid-Fuel Droplets in Supercritical Conditions, 89: 299
The Combustion of Iron in High-Pressure Oxygen, 89: 221
The Combustion Phase of Burning Metals, 91: 20
Effect of Reaction Zone Temperature Profiles on the Pulsation Frequency of Flames Spreading Across a Ceiling in the Direction of the Prevailing Flow, 91: 83
Effects of Transient Pyrolysis on Wind-Assisted and Upward Flame Spread, 89: 5
Extinction and Temperature Characteristics of Turbulent Counterflow Diffusion Flames with Partial Premixing, 91: 40
Fire Behavior of Polymethylmethacrylate, 89: 237
Flame Temperature, Fuel Structure, and Fuel Concentration Effects on Soot Formation in Inverse Diffusion Flames, 90: 269
Major Chemical Species in Buoyant Turbulent Diffusion Flames, 91: 226
Measurements and Modeling of a Bluff Body Stabilized Flame, 89: 195
Nitric Oxide Levels of Turbulent Jet Diffusion Flames: Effects of Residence Time and Damkohler Number, 88: 37
A Numerical Study of the Leading Edge of Laminar Diffusion Flames, 90: 155
Predictions of Radiative Transfer from a Turbulent Reacting Jet in a Cross-Wind, 89: 45
Scalar Dissipation Rate at the Extinction of Turbulent Counterflow Nonpremixed Flames, 91: 55
Simultaneous Temperature and Multispecies Measurement in a Lifted Hydrogen Diffusion Flame, 91: 323
Single-Shot Temperature and Mixture Fraction Profiles by Rayleigh Scattering in the Development Zone of a Turbulent Diffusion Flame, 88: 296
Soot Formation in Laminar Diffusion Flames at Elevated Temperatures, 88: 74
Structure of Overfire Soot in Buoyant Turbulent Diffusion Flames at Long Residence Times, 89: 140
The Suppression of Opposed-Jet Methane–Air Flames by Methyl Bromide, 89: 37
Universal Definitions of Mixture Fractions and Progress Variables for Arbitrary States of Premixing, 88: 83

21. FLAMES: NONSTEADY
Combustion of a Stretched Carbon Monoxide Ligament with Radiative Heat Losses, 91: 143
Effect of Reaction Zone Temperature Profiles on the Pulsation Frequency of Flames Spreading

Across a Ceiling in the Direction of the Prevailing Flow, 91: 83
Interaction of a Flame Front with Its Self-Generated Flow in an Enclosure: The "Tulip Flame" Phenomenon, 88: 201

22. FLAMES: PREMIXED
Analysis of Ignition Mechanism of Combustible Mixtures by Composite Sparks, 91: 153
The Asymptotic Structure of Premixed Methane–Air Flames with Slow CO Oxidation, 89: 343
The Asymptotic Structure of Premixed Methanol–Air Flames, 91: 382
Combustion Synthesis of Fullerenes, 88: 102
Comparative Study of Temperature Measurement with Folded BOXCARS and Collinear CARS, 89: 77
Comparisons of the Structure of Stoichiometric CH_4–N_2–Ar and CH_4–O_2–Ar Flames by Molecular Beam Sampling and Mass Spectrometric Analysis, 90: 247
Computational Studies on One-Dimensional Laminar, Premixed Hydrogen–Nitric Oxide Flames, 88: 28
Control of Longitudinal Oscillations in a Constant Area Combuster: Numerical Simulation, 89: 363
Estimating the Deceleration of Spherical Laminar Flames in Highly Fuel-Rich Mixtures by Soot Radiation, 90: 196
Experimental and Theoretical Study of a Premixed Vibrating Flame, 88: 149
Flame Surface Properties of Premixed Flames in Isotropic Turbulence: Measurements and Numerical Simulations, 88: 221
The Formation of NO_x in Surface Burners, 89: 157
The Influence of Catalytic Activity on the Ignition of Boundary Layer Flows. Part III: Hydroxyl Radical Measurements in Low-Pressure Boundary Layer Flows, 90: 11
Influence of N-Methylaniline on a Two-Stage Butane–Air Flame, 91: 413
The Influence of the Igniter-Induced Blast Wave Upon the Initial Volume and Expansion of the Flame Kernel, 88: 50
Laminar Burning Velocities and Transition to Unstable Flames in $H_2/O_2/N_2$ and $C_3H_8/O_2/N_2$ Mixtures, 90: 230
Laminar Burning Velocities of *n*-Butane/Air Mixtures Enriched with Hydrogen, 89: 214
Lewis Number Effect on the Propagation of Premixed Flames in Closed Tubes, 91: 213
LIF Measurements in Methane/Air Flames of Radicals Important in Prompt-NO Formation, 88: 137
A Numerical Simulation of a Vortex Convected Through a Laminar Premixed Flame, 91: 310
PDF Modeling and Analysis of Thermal NO Formation in Turbulent Nonpremixed Hydrogen–Air Jet Flames, 88: 397
Premixed Flames in Stagnating Turbulence Part III—The κ-η Theory for Reactants Impinging on a Wall, 91: 165
The Propagation of Wrinkled Premixed Flames in Spatially Periodic Shear Flow, 90: 121
Rydberg State Stark Spectroscopic Measurement of Electric Field Profile in a Propane–Air Flame, 90: 284
Stationary Premixed Flames in a Dual-Source System, 91: 99
The Structure of Premixed Particle–Cloud Flames, 89: 333
Surface Analysis of Combustion-Generated Soot Particles by X-Ray Photoelectron Spectroscopy, 90: 1
Synthesis of Uniform Diamond Films by Flat Flame Combustion of Acetylene/Hydrogen/Oxygen Mixtures, 91: 239
Universal Definitions of Mixture Fractions and Progress Variables for Arbitrary States of Premixing, 88: 83

23. FLAMES: TURBULENT
Comment on "Pressure-containing Correlations in Variable Density and Turbulent Reacting Flows," by P.H. Gaskell and A.K.C. Lau, 88: 119
Experimental Scaling of the Flame Acceleration Phase of an Explosion by Changing Fuel Gas Reactivity, 88: 15
Extinction and Temperature Characteristics of Turbulent Counterflow Diffusion Flames with Partial Premixing, 91: 40
Flame Surface Properties of Premixed Flames in Isotropic Turbulence: Measurements and Numerical Simulations, 88: 221
Major Chemical Species in Buoyant Turbulent Diffusion Flames, 91: 226
Measurements and Modeling of a Bluff Body Stabilized Flame, 89: 195
Nitric Oxide Levels of Turbulent Jet Diffusion Flames: Effects of Residence Time and Damkohler Number, 88: 37

A Numerical Simulation of a Vortex Convected Through a Laminar Premixed Flame, 91: 310
PDF Modeling and Analysis of Thermal NO Formation in Turbulent Nonpremixed Hydrogen–Air Jet Flames, 88: 397
Predictions of Radiative Transfer from a Turbulent Reacting Jet in a Cross-Wind, 89: 45
Premixed Flames in Stagnating Turbulence Part III—The κ–η Theory for Reactants Impinging on a Wall, 91: 165
The Propagation of Wrinkled Premixed Flames in Spatially Periodic Shear Flow, 90: 121
Scalar Dissipation Rate at the Extinction of Turbulent Counterflow Nonpremixed Flames, 91: 55
Simultaneous Emission Absorption Measurements in Toluene-Fueled Pool Flames: Mean and RMS Properties, 90: 34
Simultaneous Temperature and Multispecies Measurement in a Lifted Hydrogen Diffusion Flame, 91: 323
Single-Shot Temperature and Mixture Fraction Profiles by Rayleigh Scattering in the Development Zone of a Turbulent Diffusion Flame, 88: 296
Structure of Overfire Soot in Buoyant Turbulent Diffusion Flames at Long Residence Times, 89: 140
The Structure of Turbulent Nonpremixed Flames of Methanol Over a Range of Mixing Rates, 89: 167
Universal Definitions of Mixture Fractions and Progress Variables for Arbitrary States of Premixing, 88: 83

24. FLAMMABILITY
Laser Ignition of Combustible Gases by Radiative Heating of Small Particles, 91: 399
On the Birth of Spark Channels, 89: 186

25. FLUID DYNAMICS: STEADY FLOW
Stationary Premixed Flames in a Dual-Source System, 91: 99

26. FLUID DYNAMICS: NONSTEADY AND INSTABILITY
Effect of Reaction Zone Temperature Profiles on the Pulsation Frequency of Flames Spreading Across a Ceiling in the Direction of the Prevailing Flow, 91: 83
Laminar Burning Velocities and Transition to Unstable Flames in $H_2/O_2/N_2$ and $C_3H_8/O_2/N_2$ Mixtures, 90: 230
Lewis Number Effect on the Propagation of Premixed Flames in Closed Tubes, 91: 213
Theoretical and Numerical Structure for Unstable Two-Dimensional Detonations, 90: 211

27. FLUID DYNAMICS: TURBULENT
Chemical Kinetic Effects in Nonpremixed Flames of H_2/CO_2 Fuel, 91: 285
Comment on "Pressure-containing Correlations in Variable Density and Turbulent Reacting Flows," by P.H. Gaskell and A.K.C. Lau, 88: 119
Flame Surface Properties of Premixed Flames in Isotropic Turbulence: Measurements and Numerical Simulations, 88: 221
Mass Transfer from Liquid Fuel Droplets in Turbulent Flow, 89: 286
Predictions of Radiative Transfer from a Turbulent Reacting Jet in a Cross-Wind, 89: 45

28. FUELS, OXIDIZERS AND ADDITIVES, NONCONVENTIONAL
The Effect of Surfactants on Disaggregation of Coal–Water Slurry Particles During Combustion, 90: 199
Formation of Perchloroaromatics during Trichloroethylene Pyrolysis, 89: 103
Gas-Phase Modeling of Homogeneous Boron/Oxygen/Hydrogen/Carbon Combustion, 90: 259
Influence of N-Methylaniline on a Two-Stage Butane–Air Flame, 91: 413
The Superheat Phenomenon in the Combustion of Magnesium Particles, 88: 425

29. HETEROGENEOUS COMBUSTION: AEROSOLS, SPRAYS AND AIRBORNE DUSTS
Characteristics of Intermittent Fuel Sprays, 88: 384
Comparison of $NaHCO_3$ and $NH_4H_2PO_4$ Effectiveness as Dust Explosion Suppressants, 90: 344
The Contributions of Attrition and Fragmentation to Char Elutriation from Fluidized Beds, 89: 95
Large-Scale Dust Explosion Experiments to Determine the Effects of Scaling on Explosion Parameters, 89: 320
Mass Transfer from Liquid Fuel Droplets in Turbulent Flow, 89: 286
The Structure of Premixed Particle–Cloud Flames, 89: 333

30. HETEROGENEOUS COMBUSTION: CATALYTIC COMBUSTION
The Formation of NO_x in Surface Burners, 89: 157
The Influence of Catalytic Activity on the Ignition of Boundary Layer Flows. Part III: Hydroxyl Radical Measurements in Low-Pressure Boundary Layer Flows, 90: 11

31. HETEROGENEOUS COMBUSTION: COAL, CHAR OR CARBON
An Approximate Explicit Expression for the Combustion Rate of a Small Carbon Particle, 90: 143
Char Fragmentation and Fly Ash Formation During Pulverized-Coal Combustion, 90: 174
Combustion of Cellulosic Char Under Laminar Flow Conditions, 88: 61
The Combustion of Individual Particles of Various Coal Types, 90: 45
Comment on "Combustion of Methane and Propane in an Incipiently Fluidized Bed" by Hesketh and Davidson, 89: 235
The Contributions of Attrition and Fragmentation to Char Elutriation from Fluidized Beds, 89: 95
The Effect of Surfactants on Disaggregation of Coal–Water Slurry Particles During Combustion, 90: 199
Experimental Determination of the Equivalent Thermal Diffusivity for Porous Coal–Ash Particles, 91: 419
A General Method for Determining Chemical Kinetic Parameters During Ignition of Coal Char Particles, 88: 413
The Influence of Near Burner Region Aerodynamics on the Formation and Emission of Nitrogen Oxides in a Pulverized Coal-Fired Furnace, 91: 346
An Investigation of the Combustion of Pulverized Coal–Air Mixture in Different Combustor Geometries, 90: 307
Laser-Induced Ignition of Pulverized Fuel Particles, 90: 134
The Release of Iron During the Combustion of Illinois No. 6 Coal, 88: 1
Response to Comment by J. F. Stubington on "Combustion of Methane and Propane in an Incipiently Fluidized Bed" by Hesketh and Davidson, 89: 236
A Universal Correlation Between the Heterogeneous Ignition Temperatures of Coal Char Particles and Coals, 90: 103

32. HETEROGENEOUS COMBUSTION: SINGLE DROPLET OR PARTICLE
An Approximate Explicit Expression for the Combustion Rate of a Small Carbon Particle, 90: 143
Asymptotic Analysis with Reduced Chemistry for the Burning of *n*-Heptane Droplets, 91: 187
The Combustion of Individual Particles of Various Coal Types, 90: 45
Combustion of Liquid-Fuel Droplets in Supercritical Conditions, 89: 299
The Combustion Phase of Burning Metals, 91: 20
The Effect of Surfactants on Disaggregation of Coal–Water Slurry Particles During Combustion, 90: 199
An Investigation of the Combustion of Pulverized Coal–Air Mixture in Different Combustor Geometries, 90: 307
Laser Ignition of Combustible Gases by Radiative Heating of Small Particles, 91: 399
Microexplosion Mechanisms of Aluminum/Carbon Slurry Droplets, 89: 64
A Numerical Study of High-Pressure Droplet Vaporization, 90: 85
A Strength Model of Heterogeneous Ignition of Metal Particles, 88: 113
The Superheat Phenomenon in the Combustion of Magnesium Particles, 88: 425

33. HETEROGENEOUS COMBUSTION: SLAB, POOL, FLUIDIZED BED, ETC.
The Burning of Metals and Alloys in Microgravity, 88: 309
Combustion of Ammonium and Hydrazine Azides, 90: 289
The Combustion of Iron in High-Pressure Oxygen, 89: 221
Comment on "Combustion of Methane and Propane in an Incipiently Fluidized Bed" by Hesketh and Davidson, 89: 235
Effects of Transient Pyrolysis on Wind-Assisted and Upward Flame Spread, 89: 5
Experiments on Extinction of Liquid Hydrocarbon Fires by a Particulate Material, 89: 229
Fire Behavior of Polymethylmethacrylate, 89: 237
Global Kinetic Constants for Thermal Oxidative Degradation of a Cellulosic Paper, 88: 345
In Situ Burning via Towed Boom of Oil Spilled at Sea, 90: 295
Lewis Number Effects on Flame Spreading Over Thin Solid Fuels, 90: 71

On the Mathematical Modeling of the Transient Process of Spontaneous Heating in a Moist Coal Stockpile, 90: 114
Response to Comment by J. F. Stubington on "Combustion of Methane and Propane in an Incipiently Fluidized Bed" by Hesketh and Davidson, 89: 236
Similarity Analysis of Fracture Growth and Flame Spread in Deformable Solid Propellants, 88: 369
Synthesis of Uniform Diamond Films by Flat Flame Combustion of Acetylene/Hydrogen/Oxygen Mixtures, 91: 239
A Thermomechanical Analysis of Hot Spot Formation in Condensed-Phase, Energetic Materials, 89: 117

34. INHIBITION
Influence of N-Methylaniline on a Two-Stage Butane–Air Flame, 91: 413
The Suppression of Opposed-Jet Methane–Air Flames by Methyl Bromide, 89: 37
Thermal Reactions of CH_2Cl_2 in H_2/O_2 Mixtures: Implications for Chlorine Inhibition of CO Conversion to CO_2, 88: 265

35. IONIZATION AND/OR ELECTRICAL EFFECTS
Analysis of Ignition Mechanism of Combustible Mixtures by Composite Sparks, 91: 153
The Influence of the Igniter-Induced Blast Wave Upon the Initial Volume and Expansion of the Flame Kernel, 88: 50
On the Birth of Spark Channels, 89: 186
Rydberg State Stark Spectroscopic Measurement of Electric Field Profile in a Propane–Air Flame, 90: 284

36. KINETICS AND/OR REACTION MECHANISMS: DETAILED
The Asymptotic Structure of Premixed Methanol–Air Flames, 91: 382
Combustion of Ammonium and Hydrazine Azides, 90: 289
A Comprehensive Study on CH_2O Oxidation Kinetics, 91: 257
Computational Studies on One-Dimensional Laminar, Premixed Hydrogen–Nitric Oxide Flames, 88: 28
Gas-Phase Modeling of Homogeneous Boron/Oxygen/Hydrogen/Carbon Combustion, 90: 259
Kinetic and Thermodynamic Issues in the Formation of Aromatic Compounds in Flames of Aliphatic Fuels, 91: 21
A Kinetic Study of the Oxidation of Methanol Using Shock Tube and Computer Simulation Techniques, 88: 186
A Kinetic Study of the Pyrolysis of Methanol Using Shock Tube and Computer Simulation Techniques, 88: 169
A Mechanism for the Formation of Soot Particles and Soot Deposits, 91: 71
Mechanism Reduction for the Oscillatory Oxidation of Hydrogen: Sensitivity and Quasi-Steady-State Analyses, 91: 107
Simplifying Chemical Kinetics: Intrinsic Low-Dimensional Manifolds in Composition Space, 88: 239
Thermal Destruction of CH_3Cl Under Lean Postflame Conditions, 90: 185
Thermal Reactions of CH_2Cl_2 in H_2/O_2 Mixtures: Implications for Chlorine Inhibition of CO Conversion to CO_2, 88: 265

37. KINETICS AND/OR REACTION MECHANISMS: OVERALL
The Asymptotic Structure of Hydrogen–Air Diffusion Flames, 91: 246
The Asymptotic Structure of Premixed Methane–Air Flames with Slow CO Oxidation, 89: 343
Comment on "Combustion of Methane and Propane in an Incipiently Fluidized Bed" by Hesketh and Davidson, 89: 235
Formation of Perchloroaromatics during Trichloroethylene Pyrolysis, 89: 103
A General Method for Determining Chemical Kinetic Parameters During Ignition of Coal Char Particles, 88: 413
Global Kinetic Constants for Thermal Oxidative Degradation of a Cellulosic Paper, 88: 345
Influence of N-Methylaniline on a Two-Stage Butane–Air Flame, 91: 413
Mechanism Reduction for the Oscillatory Oxidation of Hydrogen: Sensitivity and Quasi-Steady-State Analyses, 91: 107
Response to Comment by J. F. Stubington on "Combustion of Methane and Propane in an Incipiently Fluidized Bed" by Hesketh and Davidson, 89: 236
Simplifying Chemical Kinetics: Intrinsic Low-Dimensional Manifolds in Composition Space, 88: 239

38. POLLUTANTS: INORGANICS AND SOOT
Char Fragmentation and Fly Ash Formation During Pulverized-Coal Combustion, 90: 174
Combustion Synthesis of Fullerenes, 88: 102
Flame Temperature, Fuel Structure, and Fuel Concentration Effects on Soot Formation in Inverse Diffusion Flames, 90: 269
Kinetic and Thermodynamic Issues in the Formation of Aromatic Compounds in Flames of Aliphatic Fuels, 91: 21
A Mechanism for the Formation of Soot Particles and Soot Deposits, 91: 71
The Release of Iron During the Combustion of Illinois No. 6 Coal, 88: 1
Simultaneous Emission Absorption Measurements in Toluene-Fueled Pool Flames: Mean and RMS Properties, 90: 34
Soot Formation in Laminar Diffusion Flames at Elevated Temperatures, 88: 74
Structure of Overfire Soot in Buoyant Turbulent Diffusion Flames at Long Residence Times, 89: 140
Surface Analysis of Combustion-Generated Soot Particles by X-Ray Photoelectron Spectroscopy, 90: 1
A Technique for Determining the Spectral Refractive Indices, Size, and Number Density of Soot Particles from Light Scattering and Spectral Extinction Measurements in Flames, 91: 1

39. POLLUTANTS: NO_x
The Formation of NO_x in Surface Burners, 89: 157
The Influence of Near Burner Region Aerodynamics on the Formation and Emission of Nitrogen Oxides in a Pulverized Coal-Fired Furnace, 91: 346
LIF Measurements in Methane/Air Flames of Radicals Important in Prompt-NO Formation, 88: 137
Nitric Oxide Levels of Turbulent Jet Diffusion Flames: Effects of Residence Time and Damkohler Number, 88: 37
PDF Modeling and Analysis of Thermal NO Formation in Turbulent Nonpremixed Hydrogen–Air Jet Flames, 88: 397

40. POLLUTANTS: OTHER
Combustion Synthesis of Fullerenes, 88: 102
Formation of Perchloroaromatics during Trichloroethylene Pyrolysis, 89: 103
Thermal Destruction of CH_3Cl Under Lean Postflame Conditions, 90: 185
Thermal Reactions of CH_2Cl_2 in H_2/O_2 Mixtures: Implications for Chlorine Inhibition of CO Conversion to CO_2, 88: 265

41. PROPELLANTS: PYROTECHNICS AND EXPLOSIVES
Combustion of Ammonium and Hydrazine Azides, 90: 289
Convective Combustion of Porous Compressible Propellants, 89: 260
High Strain Rate Impact Ignition of RDX with Ethylene–Vinyl Acetate (EVA) Copolymers, 89: 271
Impact Ignition Mechanisms of Rocket Propellants, 91: 131
Similarity Analysis of Fracture Growth and Flame Spread in Deformable Solid Propellants, 88: 369
A Thermomechanical Analysis of Hot Spot Formation in Condensed-Phase, Energetic Materials, 89: 117

42. PYROLYSIS AND THERMAL DECOMPOSITION
Combustion of Ammonium and Hydrazine Azides, 90: 289
Experimental Determination of the Equivalent Thermal Diffusivity for Porous Coal–Ash Particles, 91: 419
Formation of Perchloroaromatics during Trichloroethylene Pyrolysis, 89: 103
Global Kinetic Constants for Thermal Oxidative Degradation of a Cellulosic Paper, 88: 345
A Kinetic Study of the Pyrolysis of Methanol Using Shock Tube and Computer Simulation Techniques, 88: 169
On the Mathematical Modeling of the Transient Process of Spontaneous Heating in a Moist Coal Stockpile, 90: 114
Thermal Destruction of CH_3Cl Under Lean Postflame Conditions, 90: 185

43. RADIATION SPECTRA AND EXCITED SPECIES
A Technique for Determining the Spectral Refractive Indices, Size, and Number Density of Soot Particles from Light Scattering and Spectral Extinction Measurements in Flames, 91: 1

44. SMOLDERING AND LOW TEMPERATURE OXIDATION
On the Mathematical Modeling of the Transient

Process of Spontaneous Heating in a Moist Coal Stockpile, 90: 114

45. THERMOCHEMISTRY AND THERMODYNAMICS
Combustion of Liquid-Fuel Droplets in Supercritical Conditions, 89: 299
The Combustion Phase of Burning Metals, 91: 20
Complex Equilibrium Calculations by Simplex and Duality Theories with Applications to Liquid Metal Fuel Propulsion Systems, 88: 123
Microexplosion Mechanisms of Aluminum/Carbon Slurry Droplets, 89: 64
A Numerical Study of High-Pressure Droplet Vaporization, 90: 85

46. TRANSPORT OF HEAT AND MASS
Estimating the Deceleration of Spherical Laminar Flames in Highly Fuel-Rich Mixtures by Soot Radiation, 90: 196
Mass Transfer from Liquid Fuel Droplets in Turbulent Flow, 89: 286
Microexplosion Mechanisms of Aluminum/Carbon Slurry Droplets, 89: 64
Novel Features of End-Gas Autoignition Revealed by Computational Fluid Dynamics, 91: 209